

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,237	10/30/2003	Thomas F. Willey	TMLIN.001A	3359	
20995 7	590 03/23/2006		EXAM	INER	
KNOBBE MA	ARTENS OLSON &	CAIN, EDWARD J			
2040 MAIN STREET					
FOURTEENTH FLOOR			ART UNIT	PAPER NUMBER	
IRVINE, CA	92614		1714		

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/699,237	WILLEY ET AL.
	Office Action Summary	Examiner	Art Unit
		Edward J. Cain	1714
Period fo	The MAILING DATE of this communication ap	pears on the cover sheet with the c	orrespondence address
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLEMEVER IS LONGER, FROM THE MAILING DESIGNS of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute pelly received by the Office later than three months after the mailing department term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) Thi Since this application is in condition for alloward closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro	
Dispositi	on of Claims		
5)⊠ 6)⊠ 7)⊠ 8)□ Applicati 9)□ 10)□	Claim(s) 1-39 is/are pending in the application 4a) Of the above claim(s) is/are withdraware Claim(s) 1,2 and 38 is/are allowed. Claim(s) 3-5,10-28,30,32-36 and 39 is/are rejected to. Claim(s) 6-9,29 and 31 is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examin The drawing(s) filed on is/are: a) accompany and accompany are subjected to by the Examin The drawing sheet(s) including the correct the oath or declaration is objected to by the Examin The Oath Oath Oath Oath Oath Oath Oath Oath	ected. or election requirement. er. cepted or b) objected to by the led drawing(s) be held in abeyance. Section is required if the drawing(s) is objected.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		
12) <u> </u>	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Bureasee the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received in (PCT Rule 17.2(a)).	ion No ed in this National Stage
2) ☐ Notice 3) ☑ Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 'No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) ate Patent Application (PTO-152)

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 3-5, 13-19, 23, 30, 32-35, 37 and 39 are rejected under 35 U.S.C. 102(b) as being anticipated by Denton et al.

Denton et al disclose rock bits and grease compositions comprising high viscosity index polyalphaolefins with MW's and relative proportions such as claimed instantly. These compositions are further taught as comprising metal complex soaps derived from fatty acids. The polyalphaolefins are seen as inherently possessing applicants claimed branching index. The rock bits are taught as comprising journal pins, bearing surfaces, cutter cones and a pressure compensated grease reservoir.

Therefore the reference anticipates the rejected claims.

Claims 3-5, 10-23 and 36 are rejected under 35 U.S.C. 102(b) as being anticipated by Koltermann et al.

Koltermann et al disclose rock bit grease compositions comprising polyalphaolefins in combination with esters as base fluid. These compositions are further taught as comprising metal complex soaps and silica gellant thickeners, antioxidants and metal deactivators.

Therefore the reference anticipates the rejected claims.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 10/699,237

Art Unit: 1714

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 24-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koltermann et al in view of Lawate et al.

Koltermann et al disclose rock bit grease compositions as discussed above. The reference fails to teach specific types of antioxidants or metal deactivators.

The reference to Lawate et al teaches the suitability of amine or phenolic antioxidants and benzotriazole metal deactivators to similar grease compositions.

It would have been obvious to one of ordinary skill in the art to incorporate art known antioxidants and metal deactivators to the compositions of Koltermann et al.

Claims 6-9, 29 and 31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1, 2 and 38 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward J. Cain whose telephone number is (571) 272-1118. The examiner can normally be reached on M-F from 10:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on 571 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/699,237 Page 4

Art Unit: 1714

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edward J. Cain Primary Examiner Art Unit 1714